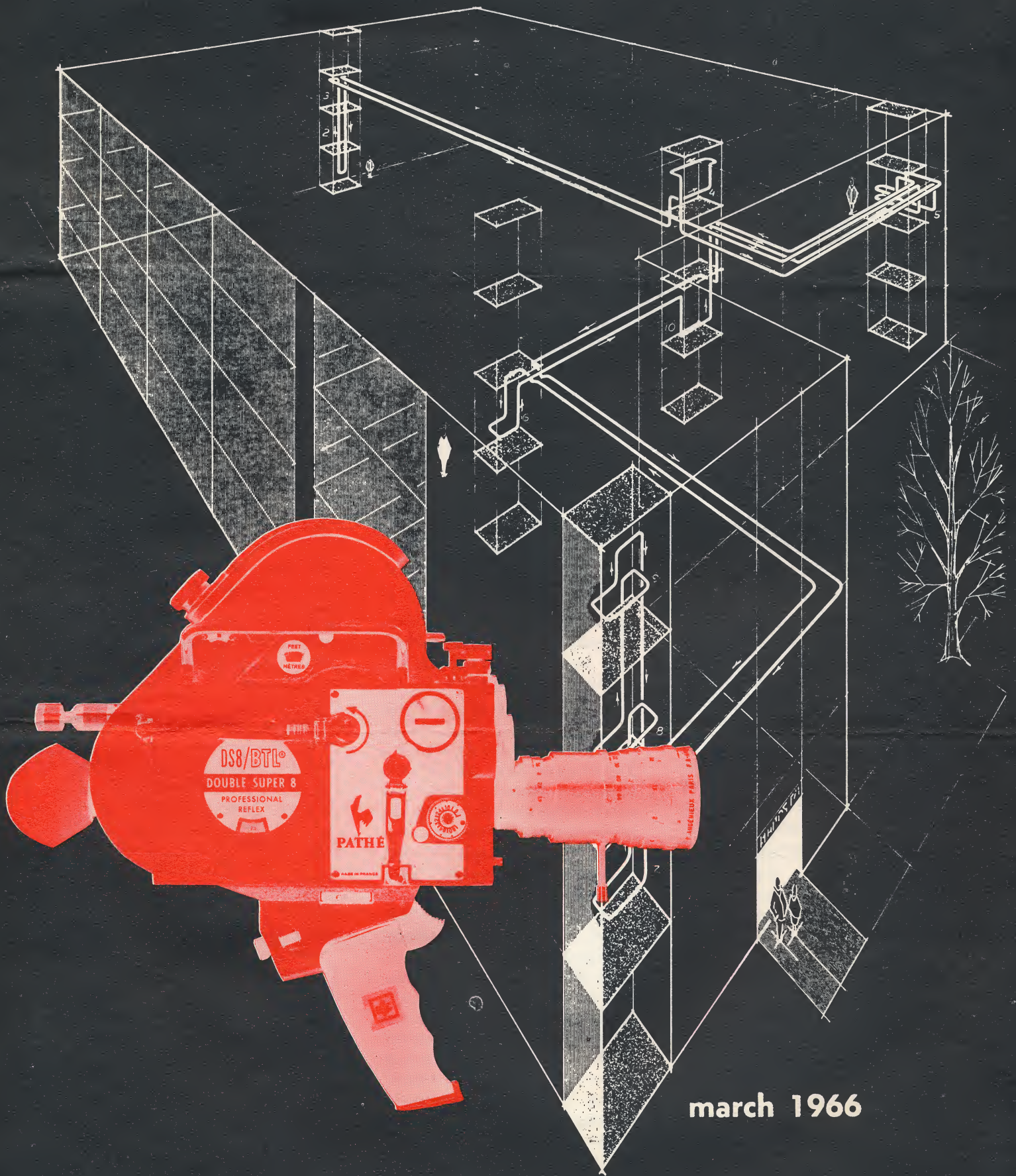


HOSPITAL HANDBOOK



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World's First and Only Professional Double Super 8 Camera Now Offered by Pathé



It is a tool in which film footage equivalent to almost 400 feet of 16mm film projection time can be taken on a single 100-foot spool of Double Super 8 film.

A practical motion picture camera for hospital use is the new, extremely versatile Pathe PR-DS8/BTL. Pioneered and perfected by Pathe, it features flicker-free pellicle system reflex viewing, high quality results, and film economy. The 100-foot roll of Double Super 8 runs 10 minutes at sound speed 24 fps.

The Pathe Professional Reflex DS8/BTL is the world's first movie camera to use a 100-foot roll of Double Super 8 film. The Pathe PR-DS8/BTL camera manufactured by Pathe is unparalleled for filming where economy and professional quality are essential. It is rapidly finding wide acceptance among doctors, scientists in the medical field, and in hospitals. The highly versatile DS8/BTL can be utilized for filming

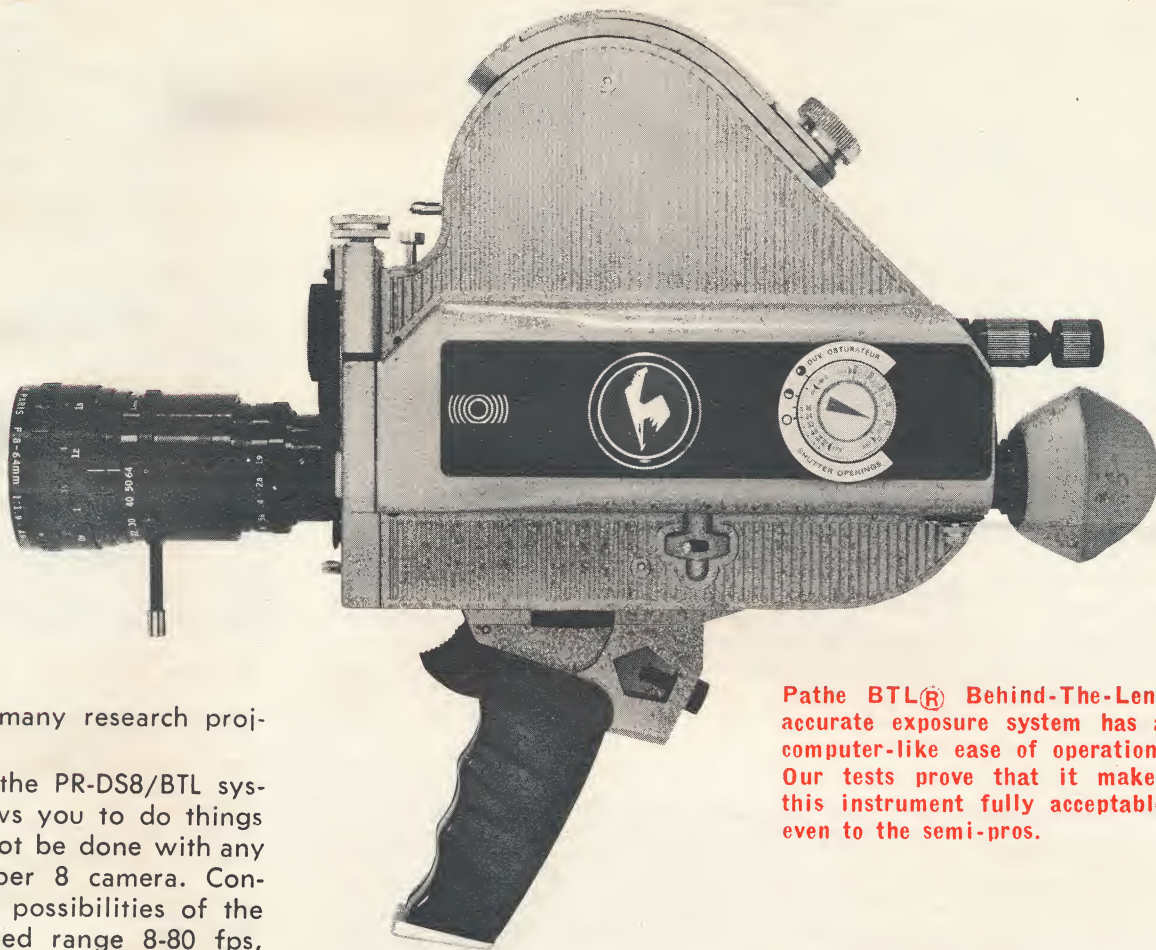
operative procedures, data recording, psychiatric studies, and in the many phases of hospital training.

The new Super 8 film frame has 50 per cent more image area than the old standard 8 film frame. This results in a sharper, less grainy, and much brighter picture to be projected on the screen.

Dr. E. M. Crane of the Research Laboratories, Eastman Kodak Company, has described in his paper entitled, "An Objective Method for Rating Picture Sharpness: SMT Acutance" a method for evaluating system modulation transfer curves in terms of relative sharpness values. Herein he places a value of 100 on a picture which is as sharp as could be desired. The scale of relative sharpness values goes

down by units of just one noticeable difference in sharpness. Approximately, then, a value of 90 represents a high quality picture; a value of 80, a satisfactory level of sharpness; and a value of 70, a poor rating for sharpness. He also has developed a method of calculating the system sharpness based upon the area under the individual curves and the system magnifications, a much easier calculation than doing it frequently by frequency.

Mr. Evan A. Edwards of Eastman Kodak Company, Rochester, New York, in his paper entitled "Super 8 Film — A Medium for Communication in Business, Industry, and Education" stated: "In using this method (Dr. E. M. Crane's) and assuming high quality optics in the



tool for many research projects.

The Pathe PR-DS8/BTL system allows you to do things that cannot be done with any other super 8 camera. Consider the possibilities of the wide speed range 8-80 fps, the variable shutter, automatic threading, single frame and time exposure control. The Pathe PR-DS8/BTL gives you the ability to create a complete, highly versatile professional super 8 motion picture system. When needed, you can attach various accessories such as electric motor drives, 400-foot magazines (for Super 8 film capacity of 800 feet—projection time of 40 minutes!), matte box, and a total selection of lenses.

DS8 film, color and black and white, made by Kodak is available through Pathe Authorized Dealers on 100-, 200-, or 400-foot spools. We have been told that Agfa-Gevaert and other brands will also be available soon. The DS8 film is, in fact, a 16mm film with Super 8 perforations on both sides. It is supplied specifically and only

on 16mm spools with standard square centers corresponding to the square type spindles on the professional 16mm cameras.

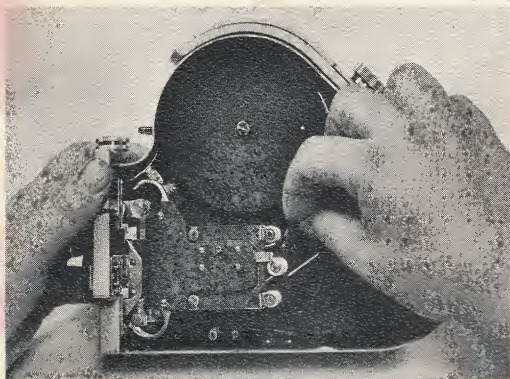
Obviously we are delighted with the introduction of the PR-DS8/BTL camera, which we find through our own testing to be an outstanding cine engineering achievement by Pathe. Our tests prove that the computer-like ease of operating this camera makes it fully acceptable even to the semi-pros.

Again, Pathe proves to be not only a specialist in cinematography since 1896, but also a leader and a pioneer of new ideas and constant improvements in this field. Their vision and initiative in bringing the utmost sharpness with the maximum of

Pathe BTL® Behind-The-Lens accurate exposure system has a computer-like ease of operation. Our tests prove that it makes this instrument fully acceptable even to the semi-pros.

economy to the Super 8 film format is an accomplishment worthy of applause. Pathe's introduction of the world's first professional Double Super 8 movie camera and Kodak's introduction of the world's first Double Super 8 film in 100-, 200-, and 400-foot spool lengths are, together, a memorable and great milestone in cinematography.

Now doctors, medical scientists, hospitals, researchers and instructors have in the new Pathe Professional DS8/BTL camera a rugged, automatic, flicker-free and totally economical film production tool of outstanding quality. Our approval seal "Recommended for Hospital Use" goes to the new Pathe DS8 movie system.



In the Pathe DS8/BTL camera, for the first time ever, the Double Super 8 film on 100' spool is used, and is routed in a professional way through the positive, dependable center sprocket camera drive system and through a precision film gate permanently located in the camera. Yet it has easy loading, foolproof automatic threading in just 13 seconds.

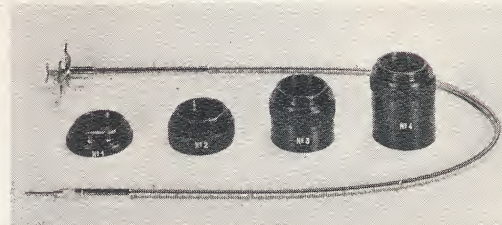
camera lens and high quality optics in the projector and Kodachrome II Film as a camera original, a value of 98 is obtained if the film is 16mm, and 94 if it is super 8."

The above comparison results were obtained between 16mm film and Super 8 Cartridge film. This new Pathe DS8/BTL camera, however, is the world's first camera in which the new, brilliant Super 8 film format is used for the first time on a

100-foot spool, and not in a film cartridge. In the Pathe DS8/BTL camera the film is routed in a professional way through the center sprocket camera drive system and through a precision film gate permanently located in the camera. This fact also allows the full benefit of high quality optics used, and it is therefore obvious that in the Pathe DS8 the Super 8 film resolution will be better than 94 and will be much closer to the value of 98 obtained with the 16mm film.

In comparison with the film cost of 16mm film, the new Double Super 8 film has practically a 4:1 advantage. Specifically, 400 feet of 16-

new and economical total Pathe DS8 movie system. With its external magazine, filming times of up to 40 minutes at sound speed 24 fps can be obtained with a magazine no larger than the standard 400-foot 16mm magazine.

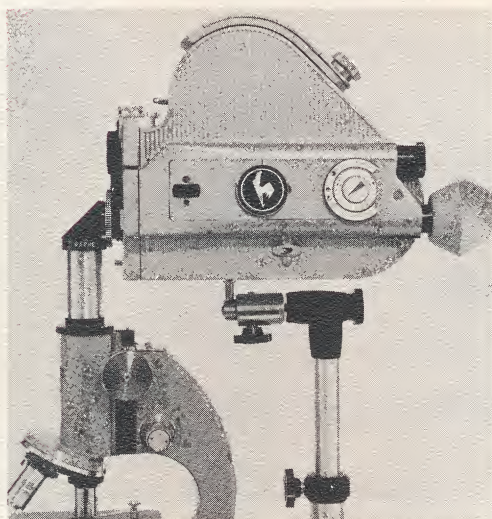


For macrocinematography, extreme close-up filming with lenses from 25mm to 150mm focal length, Pathe has developed a set of four extension tubes. Combination of extension tubes permits the covering of areas as small as a quarter of an inch.

The high resolution picture quality obtainable with the DS8/BTL is a direct result of a precision film gate, camera professional center sprocket drive, and especially designed optics. Results comparable to the larger 16mm film format are now possible with the economy of low cost standard 8mm film.

The Pathe BTL system gives accurate exposure readings even while filming with any DS8 Pathe Angenieux or SOM Berthiot "C" mount lens. Either prime or zoom lenses may be used. Exposure readings are accurate at any camera speed from 8 to 80 frames, at any variable shutter position and any ASA setting, even with filters or accessory lens over the camera lens. Of special interest to our profession is the fact that the Pathe BTL exposure readout system can be used with microscopes and other optical instrumentation, giving perfect results without experimentation.

The heart of the Pathe BTL system is the cadmium sulfide



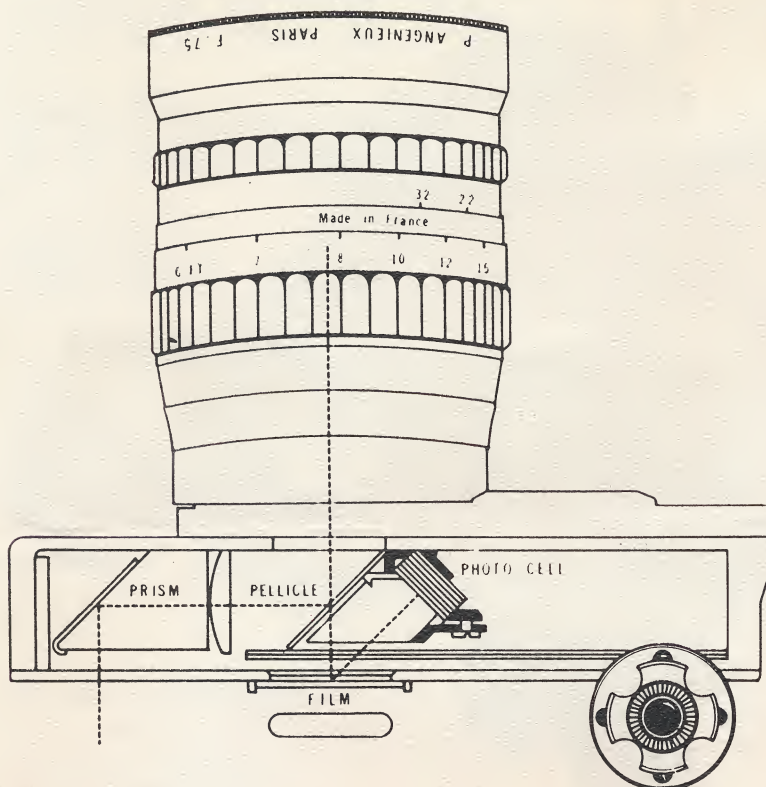
Unique microscope adapter allows the user to look into the camera eyepiece at a comfortable position—right angle to the microscope. Pathe PR reflex system, coupled with Pathe's patented BTL exposure system, enables accurate focusing, framing and precise evaluation of correct micro-exposure without guess work and time consuming tests.

mm film at 24 fps normal sound speed equals 11 minutes of projection time, whereas, only 200 feet of Super 8 film (obtainable on one 100-foot roll) at 24 fps equals 10 minutes of projection time.

The PR-DS8/BTL is not only a camera, but is a part of a



This lightweight streamlined aluminum carrying case is designed to withstand the most rugged usage and at the same time to fully protect and store in its deep styrofoam the total Pathe PR-DS8/BTL system.



The Pathe exclusive BTL® exposure system offers a direct and accurate reading by CDS cell of the actual light reaching the film at the film plane. This is not a spot reading but a true, direct reading of the entire frame. The light is measured after it has passed through all the lens elements, the diaphragm, the pellicle reflex system, and the camera shutter. The computer-like ease of BTL operation makes this camera fully acceptable even to the semi-pros.

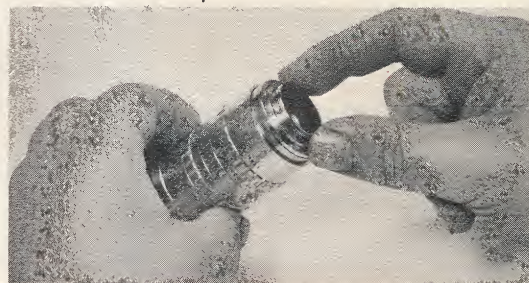
cell, which reads the actual light that reaches the film plane. The light is measured after it has passed through all the lens elements, the dia-

phragm, the reflex system and the shutter, giving you the most accurate reading possible by measuring that light which impinges on the film itself. Intentional over-exposures or underexposures can be achieved by simply overriding the precise BTL reading.

An advanced reflex pellicle system assures you of constant control over exposure, sharpness, and framing at all times, even while filming. Viewing is continuous, flicker-free, and brilliant even at small apertures.

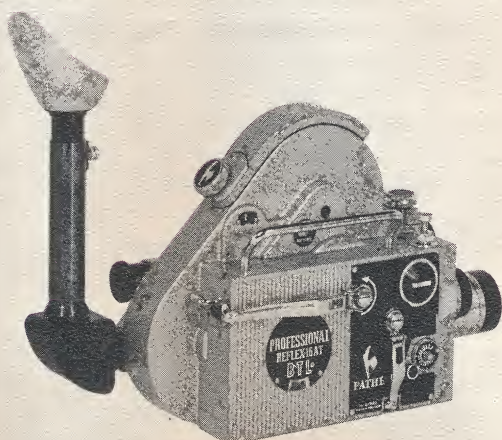
The Pathe DS8/BTL also features professional automatic film threading, variable shutter from 180° to totally closed with automatic signal when closed, convenient positive turret lock for use with large lenses and accessories,

geared frame and footage counter, unique film-in-camera reminder, all speeds from 8 to 80 frames per second, built-in rewind handle, single frame exposure control, and a 1:1 shaft for many useful accessories, including sound synchronization. This precision instrument is made of pressure molded hydronallum and can be operated at con-

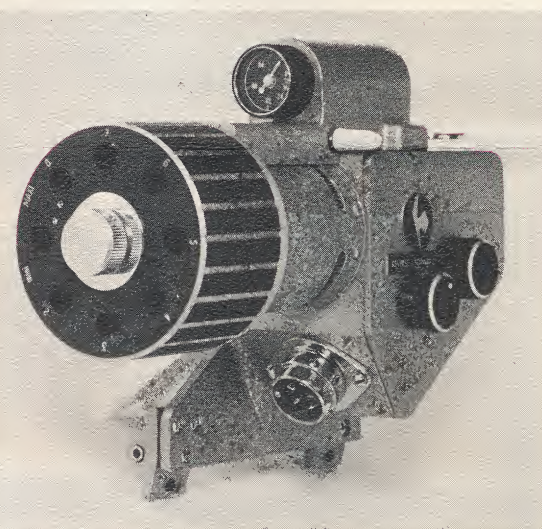


Pathe Angenieux and Pathe SOM Berthiot lenses are in standard "C" mounts with an added alignment feature which allows you to place the index line of a Pathe lens in desired position. The threads are spring loaded and can be safely rotated 360° without affecting the lens focus.

stant speed from 40° F below zero to 250° F above. This fact alone puts this camera into a category of its own as an extremely useful



Framing, focusing, composing, BTL exposure—all these advantages of the Pathe direct, through-the-lens reflex system further dramatized by this accessory Pathe periscope viewfinder with its 360° rotary flexibility for any camera position.



The Pathe Piloton motor is basically the same as the Pathe 8-80 motor except that the normal tachometer has been replaced by a generator tachometer which sends synchro impulses to the tape recorder. The Pathe Piloton sound system will operate with different types of sound tape recorders.

World's first professional reflex double super 8 with automatic threading and **BTL**[®] behind-the-lens automation.

Super 8 economy!

16mm quality!

Both are possible for the first time with Pathe's Double Super 8 system. Now the serious film maker can take 200' of super 8 film on a single 100' spool without an external magazine—equivalent to nearly 400' of 16mm footage.

The Pathe PR DS8/BTL will produce professional effects heretofore possible only on advanced 16mm equipment together with outstanding film economy.

New from Pathe for the USA!

Write to us for details and user net prices.



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